

## REPORT

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**SOURCE** Documentary as indicated (Information specifically requested.)

"Zhur Obsh Biol" Vol VIII, No 2, 1947.

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Development of author's previous paper of the same title (1946), giving further data in full agreement with his hypothesis as to the role played by the structural homozygosity and heterozygosity in chromosome changes.

"Physiological Mutations in Populations," N. P. Dubinin, Inst of Cytol, Histol, and Embryol, Acad Sci USSR

"Izv Akad Nauk SSSR, Ser Biol" No 4, Jul/Aug 1947

Study of the genetics of population according to their physiological properties. So far it has been based mainly on the study of the variability and heredity of either morphological characteristics or those of pathologic physiology. In this paper the analysis of variability and heredity according to the fertility characteristics by natural populations of *Drosophila melanogaster* is presented; here, one of the essential adaptive characteristics of populations is dealt with, as it is quite evident that the fertility level is one of great adaptive importance in the life of a species and of its separate populations.

"Effect of Acenaphthene upon Nondisjunction of Sex Chromosomes in *Drosophila melanogaster*," M. O. Zivin, Cent Inst of Ontology, Moscow

"Compt Rend Acad Sci URSS" Vol LII, 1946, pp 351-2

Previous work on effects of acenaphthene reviewed. Author's experiments indicate that acenaphthene added to food of *D. melanogaster* causes nondisjunction of the sex chromosomes.

"Influence of Thymonucleic Acid on *Drosophila melanogaster*," M. O. Zivin Oncological Inst, Moscow

"Compt Rend Acad Sci URSS" Vol LII, 1946, pp 263-4

Thymonucleic acid added to the food of *Drosophila melanogaster* in various concentrations does not preclude the occurrence of tumors, has no effect on existing tumors, and does not cause directed mutations.

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